Docket No.: 050389-0053 **PATENT**

> IN THE UNITED **\$TATES PATENT AND TRADEMARK OFFICE**

In re Application of

Kiichi MEGURO, et al.

Application No.: 10/510,848

Filed: October 13, 2004

Customer Number: 20277

Confirmation Number: CNF NO. 3835

Group Art Unit: 1765

Examiner: Not yet assigned

For: DIAMOND COMPOSITE SUBSTRATE AND A METHOD FOR MANUFACTURING

SAME

REQUEST FOR CORRECTED FILING RECEIPT

Mail Stop OFR Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Attached is a copy of the Filing Receipt received from the U.S. Patent and Trademark Office in the above-referenced application. It is noted that the third Inventor has been omitted. Attached is a copy of the Front Page of the Published International Application and the Declaration document, which evidences that the third Inventor's name and residence should read: Takahiro IMAI, Itami-shi, Hyogo, JAPAN. It is requested that a corrected filing receipt be issued.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

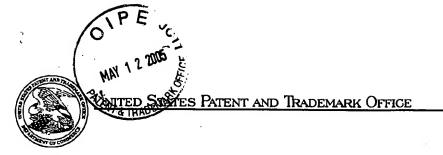
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Date: May 12, 2005



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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
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CONFIRMATION NO. 3835

20277 MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096



Date Mailed: 04/08/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

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Power of Attorney: The patent practitioners associated with Customer Number 20277.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/00532 01/22/2004

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Foreign Applications

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McDERMOTT, WILL & EMERY

Projected Publication Date: To Be Determined - pending completion of Security Review

Non-Publication Request: No

Early Publication Request: No

Title

Diamond composite substrate and process for producing the same

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(19) 世界知的所有権機関 国際事務局



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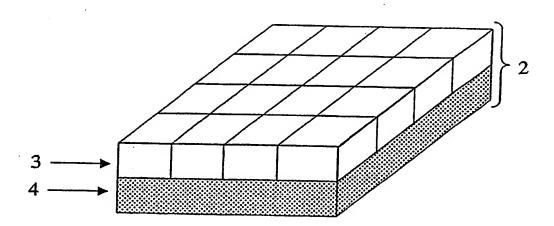
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/続葉有/

(54) Title: DIAMOND COMPOSITE SUBSTRATE AND PROCESS FOR PRODUCING THE SAME

(54) 発明の名称: ダイヤモンド複合基板及びその製造方法



(57) Abstract: A highly tough diamond substrate of large area and high quality for use in semiconductor materials, electronic components, optical parts, etc.; and a process for producing the same. A diamond composite substrate is produced by superimposing a diamond polycrystal film on a surface of diamond single-crystal substrate. With respect to this diamond composite substrate, it is preferred that plane opposite in parallel relationship to the main plane of largest area of diamond single-crystal substrate as {100} plane be formed by the superimposed diamond polycrystal film. Diamond composite substrate (2) may be provided by forming diamond single-crystal substrate (3) from multiple diamond single crystals with the orientations of main planes uniformalized and joining the multiple diamond single crystals by means of diamond polycrystal layer (4). Further, using the diamond single crystals as seed crystals, diamond single crystals formed by a vapor-phase synthesis may be superimposed on a surface thereof.

(57) 要約: 本発明の目的は、半導体材料、電子部品、光学部品などに用いられる、髙靱性でかつ、大面積・髙品質 なダイヤモンド基板及びその製造法を提供することである。 ダイヤモンド単結晶基板の表面にダイヤモンド多結 晶膜を積層させてダイヤモンド複合基板とする。該複合基板は、ダイヤモンド単結晶基板の最も面積の大きい主た る面を {100} 面とし、この面に平行な対面に、前記ダイヤモンド多結晶膜が積層されていることが好ましい。 該ダイヤモンド単結晶基板3を、主たる面の面方位が揃った複数個のダイヤモンド単結晶体から構成し、これら複 数個のダイヤモンド単結晶体を該ダイヤモンド多結

- (81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) 指定国 (表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL,

SZ, TZ, UG, ZM, ZW), $\mathbf{1} - \mathbf{7} \triangleright \mathcal{T}$ (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), $\mathbf{3} - \mathbf{p} \vee \mathcal{N}$ (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

添付公開書類:

一 国際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。



Docket No.:

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name,

wij residence, maning	address and orderensing are	as stated solo willout to my man	,
first and joint invento	r (if plural names are listent on the invention entitled	(if only one name is listed below) of the subject matte DIAMOND COMPOSITE SUBSTRATE the specification of which	r claimed and for
Internationa	nereto. n 2004 ²² as United S n Application Number ation-In-Part (CIP) of App	and was amended on (if a	, or PCT applicable), or
-	e reviewed and understand amended by any amendme	the contents of the above identi- ent referred to above.	fied specification,
in accordance with Titl in-part applications, m	e 37, Code of Federal Reg aterial information which	nich is known to me to be mater ulations, Section 1.56 including became available between the rnational filing date of the co	g for continuation- filing date of the
365(b) of any foreign a 365(a) of any PCT into United States of Ameri patent or inventor's, or p	application(s) for patent or ernational application which ca, listed below and have	United States Code, Section 11 inventor's or plant breeder's rich designated at least one coun also identified below any foreignate, or any PCT international an priority is claimed:	ight certificate, or try other than the gn application for
Prior Foreign Applica	• •		
Number JP Pat.Appl.	Country	Day/Month/Year filed	Priority Claimed
No.2003-18736	Japan	January 28, 2003	Tes —
I hereby claim the ber provisional application(tes Code, Section 119(e) of a	ny United States
Prior Provisional Application Number	lication(s):	Filing Date	

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